



Wednesday, February 10, 2021

Attn: Ms. Jennifer Atkins  
AECOM  
250 Apollo Drive  
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500  
SDG ID: GCH59024  
Sample ID#s: CH59024 - CH59025

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

February 10, 2021

SDG I.D.: GCH59024

Project ID: GULF CHELSEA TERMINAL 60597375-0500

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Client Id	Lab Id	Matrix
OUTFALL 003	CH59024	SW DISCHARGE
TRIP BLANK	CH59025	SW DISCHARGE



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## Analysis Report

February 10, 2021

FOR: Attn: Ms. Jennifer Atkins  
AECOM  
250 Apollo Drive  
Chelmsford, MA 01824

### Sample Information

Matrix: SW DISCHARGE  
Location Code: AECOME-GULF  
Rush Request: 72 Hour  
P.O.#: 112185

### Custody Information

Collected by:  
Received by: B  
Analyzed by: see "By" below

### Date

02/07/21  
02/08/21

### Time

11:55  
13:54

## Laboratory Data

SDG ID: GCH59024  
Phoenix ID: CH59024

Project ID: GULF CHELSEA TERMINAL 60597375-0500  
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	02/09/21	MSF	EPA 1664
pH	7.74	1.00	pH Units	1	02/08/21 21:13	AP/EG	SM4500-H B-11
Total Suspended Solids	17	3.3	mg/L	0.7	02/09/21	LS/QH	SM 2540D-11
Semi-Volatile Extraction	Completed				02/08/21	P/CG	SW3520C

### Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	02/09/21	MH	E624.1
Napthalene	ND	1.0	ug/L	1	02/09/21	MH	E624.1

### QA/QC Surrogates

% 1,2-dichlorobenzene-d4	101		%	1	02/09/21	MH	70 - 130 %
% Bromofluorobenzene	101		%	1	02/09/21	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	02/09/21	MH	70 - 130 %
% Toluene-d8	98		%	1	02/09/21	MH	70 - 130 %

### Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.02	ug/L	1	02/09/21	WB	E625.1
Napthalene	ND	0.11	ug/L	1	02/09/21	WB	E625.1

### QA/QC Surrogates

% 2-Fluorobiphenyl	62		%	1	02/09/21	WB	40 - 140 %
% Nitrobenzene-d5	78		%	1	02/09/21	WB	40 - 140 %
% Terphenyl-d14	51		%	1	02/09/21	WB	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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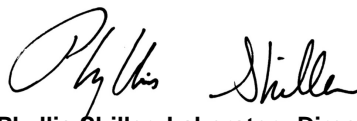
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director

February 10, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

February 10, 2021

FOR: Attn: Ms. Jennifer Atkins  
AECOM  
250 Apollo Drive  
Chelmsford, MA 01824

### Sample Information

Matrix: SW DISCHARGE  
Location Code: AECOME-GULF  
Rush Request: Standard  
P.O.#: 112185

### Custody Information

Collected by:  
Received by: B  
Analyzed by: see "By" below

### Date

02/07/21

### Time

02/08/21 13:54

## Laboratory Data

SDG ID: GCH59024  
Phoenix ID: CH59025

Project ID: GULF CHELSEA TERMINAL 60597375-0500  
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Aromatic Volatiles w/Napthalene</u></b>							
Benzene	ND	1.0	ug/L	1	02/09/21	MH	E624.1
Napthalene	ND	1.0	ug/L	1	02/09/21	MH	E624.1
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	102		%	1	02/09/21	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	02/09/21	MH	70 - 130 %
% Dibromofluoromethane	111		%	1	02/09/21	MH	70 - 130 %
% Toluene-d8	99		%	1	02/09/21	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
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Phyllis Shiller, Laboratory Director

February 10, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

February 10, 2021

### QA/QC Data

SDG I.D.: GCH59024

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 562818 (mg/L), QC Sample No: CH59061 (CH59024)													
Oil and Grease by EPA 1664A	BRL	1.4				98.0	96.0	2.1				85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 562823 (mg/L), QC Sample No: CH59108 (CH59024)													
Total Suspended Solids	BRL	2.5	25	30	18.2	94.0						85 - 115	
QA/QC Batch 562844 (pH), QC Sample No: CH59145 (CH59024)													
pH			7.33	7.28	0.70	98.3						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													



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## QA/QC Report

February 10, 2021

### QA/QC Data

SDG I.D.: GCH59024

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 562769 (ug/L), QC Sample No: CH57866 (CH59024)										
<u>Semivolatiles by SIM, PAH</u>										
Benzo(a)pyrene	ND	0.02	84	88	4.7				40 - 140	20
Naphthalene	ND	0.50	74	73	1.4				40 - 140	20
% 2-Fluorobiphenyl	69	%	65	67	3.0				40 - 140	20
% Nitrobenzene-d5	98	%	99	94	5.2				40 - 140	20
% Terphenyl-d14	81	%	84	84	0.0				40 - 140	20

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 562838 (ug/L), QC Sample No: CH59109 (CH59024, CH59025)

### Volatiles


Benzene	ND	0.70	106	105	0.9	102	103	1.0	65 - 135	20
Naphthalene	ND	1.0	111	115	3.5	119	116	2.6	70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	101	101	0.0	101	102	1.0	70 - 130	30
% Bromofluorobenzene	99	%	101	102	1.0	100	103	3.0	70 - 130	30
% Dibromofluoromethane	109	%	113	111	1.8	104	103	1.0	70 - 130	30
% Toluene-d8	99	%	101	101	0.0	98	101	3.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference

  
Phyllis Shiller, Laboratory Director  
February 10, 2021

Wednesday, February 10, 2021

Criteria: None  
State: MA

**Sample Criteria Exceedances Report**  
**GCH59024 - AECOME-GULF**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





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## Analysis Comments

February 10, 2021

SDG I.D.: GCH59024

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



# CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Email: info@phoenixlabs.com Fax (860) 645-0823  
Client Services (860) 645-8726

Cooler: Yes ☒ No ☐  
Coolant: IPK ☐ ICE ☐

Temp: 0 °C Pg. of

## Data Delivery/Contact Options:

Fax: ☐ Phone: ☒  
1-978-905-2112  
Email: ☒ jennifer.atkins@aecom.com

Project P.O.: 112185  
Report to: Jennifer Atkins  
Invoice to: AECOM  
QUOTE # AE012319RM

Customer: AECOM  
Address: 250 Apollo Drive  
Chelmsford, MA 01824  
Jennifer Atkins

## Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 2-7-21

Matrix Code: SW = Surface Water WW = Waste Water  
GW = Ground Water SL = Sludge S = Soil SD = Solid W = Wipe OIL = Oil  
B = Bulk L = Liquid

PHOENIX USE ONLY  
SAMPLE #

Customer Sample Identification

Sample Matrix

Date Sampled

Time Sampled

## Analysis Request

PH	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
TSS	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
ORG	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
SAECOM624-MONTH	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
SAECOM624-MONTH	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100

PH	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
TSS	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
ORG	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
SAECOM624-MONTH	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100
SAECOM624-MONTH	GL Amber 8 oz. WH3PO4	GL Soil container (methanol) 1000ml	GL Amber 1000ml (x) 1000ml	PL H2SO4 (x) 250ml	PL HNO3 250ml	Beckman Bottle w/100

Relinquished by: <u>[Signature]</u>	Accepted by: <u>[Signature]</u>	Date: <u>2-8-21</u>	Time: <u>11:30</u>	RI: <input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	CT: <input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> IIC DEC <input type="checkbox"/> Other	MA: <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	Data Format: <input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQIS <input type="checkbox"/> Other		
Comments, Special Requirements or Regulations: * Please run TSS sample 3 day TAT!				Turnaround: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input checked="" type="checkbox"/> 3 Days* <input type="checkbox"/> Standard <input type="checkbox"/> Other				State where samples were collected: MA	
* SURCHARGE APPLIES									